CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 02/10/2002

Experimenters: Jason Marshall

ClientType: Electromagnetic Manufacturer

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Adhesive, Mold Releases, Oxides, Latex binder

Cleaning Methods:

Analytical Methods:

Purpose: Identify alternative cleaning products for removing latex adhesive, silicone slurry and silicone oxide from stainless steel parts

Experimental Procedure: Database search was run for lab testing and vendor recommended products.

Results: Lab Evaluated Products for Latex binder cleaning from stainless steel

Company Name:	Product Name:	Classification	Substrate:	Trials
Alconox, Inc.	Alcojet	Powder Alkaline Detergent	Stainless Steel	1
AW Chesterton	181 Low Alkaline Cleaner	Alkaline Aqueous	Stainless Steel	1
Brulin Corporation	Formula 815 GD	Alkaline Aqueous	Stainless Steel	2
Buckeye International	Shopmaster	Alkaline Aqueous	Stainless Steel	2
Buckeye International	Shopmaster LPH	Alkaline Aqueous	Stainless Steel	1
Calgon Corporation	GP Xtra	Alkaline Aqueous	Stainless Steel	1
Oakite Products	Inproclean 3800	Alkaline Aqueous	Stainless Steel	2
Simple Green	Crystal Simple Green Industrial	Alkaline Aqueous	Stainless Steel	1
Smart Sonic	440-R SMT Detergent	Alkaline Aqueous	Stainless Steel	1
Today & Beyond	Beyond-2004	Alkaline Aqueous	Stainless Steel	1
U.S. Polychem Corp.	Polyspray Jet 790 P	Alkaline Aqueous	Stainless Steel	1
Water	Water	Neutral Aqueous	Stainless Steel	2

Vendor Search Parameters		
Contaminant Description	Equipment Description	Substrate Description
Adhesive	Low Pressure Spray	Stainless Steel
Adhesive	Ultrasonics	Stainless Steel
Mold Releases/ Silicones	Low Pressure Spray	Stainless Steel
Mold Releases/ Silicones	Ultrasonics	Stainless Steel

CLEANING LABORATORY EVALUATION SUMMARY

Vendor Search Results		
Company Name	Product Name	Classification
Albemarle Corp	Abzol Cleaners	Organic
Buckeye International	Shopmaster	Alkaline Aqueous
Buckeye International	Shopmaster FF	Alkaline Aqueous
Buckeye International	Shopmaster LPH	Alkaline Aqueous
Chrisal USA, Inc.	Super CMF 240	Alkaline Aqueous
Envirosolutions, Inc.	SOLSAFE 245	Petroleum Distillate
Gemtek Products	SC Supersolve	Organic
Hotsy Cleaning Systems	Hotsy Detergents Tub & Pressure Wash	Alkaline Aqueous
Safe Science	Safe Science Concrete/ Graffiti (Industrial)	Alkaline Aqueous
Solvent Kleene, Inc.	D-Greeze 1000	Petroleum Distillate
Solvent Kleene, Inc.	D-Greeze 500 LO	Organic
Today & Beyond	Beyond-2001	Alkaline Aqueous
Today & Beyond	Beyond-2002	Alkaline Aqueous
Today & Beyond	Beyond-2003	Alkaline Aqueous
Today & Beyond	Beyond-2004	Alkaline Aqueous
Today & Beyond	Beyond-2005	Alkaline Aqueous
Today & Beyond	Beyond-2006	Alkaline Aqueous
U.S. Polychem Corp.	Hydropurge 36	Alkaline Aqueous
U.S. Polychem Corp.	Polychem 2000 P	Alkaline Aqueous
U.S. Polychem Corp.	Polychem A 2000 XS	Alkaline Aqueous
U.S. Polychem Corp.	Polychem Acra Strip 600	Neutral Aqueous
U.S. Polychem Corp.	Polychem Acra Strip 600	Semi-Aqueous
U.S. Polychem Corp.	Polychem DEOX 007	Alkaline Aqueous
U.S. Polychem Corp.	Polychem Hydropurge 21	Alkaline Aqueous
U.S. Polychem Corp.	Polychem Hydropurge 36 XS	Alkaline Aqueous
U.S. Polychem Corp.	Polychem Hydropurge XS-790	Alkaline Aqueous
U.S. Polychem Corp.	Polychem PW-147	Alkaline Aqueous
U.S. Polychem Corp.	Polychem RCC-25	Petroleum Distillate
U.S. Polychem Corp.	Polychem RCC-25	Terpene

CLEANING LABORATORY EVALUATION SUMMARY

U.S. Polychem Corp.	Polyspray Jet 790 C	Caustic
U.S. Polychem Corp.	Polyspray Jet 790 P	Alkaline Aqueous
U.S. Polychem Corp.	Polyspray Jet 790 XS	Alkaline Aqueous
U.S. Polychem Corp.	Polyspray Jet ST-21	Alkaline Aqueous
W.R. Grace & Co.	Daraclean 203	Caustic
W.R. Grace & Co.	Daraclean 235	Neutral Aqueous
W.R. Grace & Co.	Daraclean 257	Alkaline Aqueous

Summary:

Conclusion: Cleaning projects vary from case-to-case. To identify a specific cleaning agent, testing with any of the above listed products should be performed. If you would like the SSL to perform this testing, please contact the lab at (978)934-3133 to arrange delivery of parts and samples of specific contaminants.